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FILE COVERS 1907 - 30 Jul 2008 VOL 149 ISS 5 FILE LAST UPDATED: 29 Jul 2008 (20080729/ED)

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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN L5

ACCESSION NUMBER: 2007:173868 CAPLUS

DOCUMENT NUMBER: 146:230985

TITLE: Process for printing an image on a substrate,

composition and azo dye compound for use in the

composition

INVENTOR(S): Monahan, Lilian; Double, Philip John; Bradbury, Roy

PATENT ASSIGNEE(S): Fujifilm Imaging Colorants Limited, UK

SOURCE: PCT Int. Appl., 50pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	ENT NO. KIND		APPLICATION NO.	DATE		
WO 0007017091	A O	00070015	WA DAAC CROSCO	00000721		
WO 2007017631 WO 2007017631	A2 A3	20070215 $20070614$	WO 2006-GB2862	20060731		

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             GM, KE, LS,
                              MZ, NA, SD,
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                                           EA, EP,
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     EP 1915431
                                  20080430
                                               EP 2006-765174
                                                                        20060731
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             AT,
              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK,
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PRIORITY APPLN. INFO.:
                                               GB 2005-16243
                                                                    A 20050808
                                               GB 2005-16244
                                                                        20050808
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                                               WO 2006-GB2862
                                                                        20060731
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OTHER SOURCE(S): MARPAT 146:230985

$$A-N=N$$
 $(SO_3H)_p$ 
 $E-N=N-D$ 
 $I$ 

## ABSTRACT:

GRAPHIC IMAGE:

A process for printing an image on a substrate with high d. and good lightfastness, comprising applying to the substrate an ink composition which comprises a liquid medium and a compound of formula I; wherein: A and D each independently represent optionally substituted aryl or optionally substituted heteroaryl; E represents optionally substituted pyrazolyl; Z represents H, halogen, nitro, cyano, hydroxy, amino, carboxy, optionally substituted alkyl, optionally substituted alkoxy or optionally substituted aryloxy; and p is an integer from 0 to 5; provided that E does not have an optionally substituted carbonamide group of formula - CONR1R2 directly attached to it, wherein R1 and R2 each independently represent H, optionally substituted alkyl, optionally substituted cycloalkyl, or optionally substituted aryl. The printing is preferably ink jet printing. Also provided are compds. of formula I and ink compns. containing the same.

## IT 924311-67-1

RL: TEM (Technical or engineered material use); USES (Uses) (dye; manufacture of diazo naphthalene compds. and compns. for use in ink-jet printing)

RN 924311-67-1 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-[6-[2-[2-carboxy-4-[2-(2,5-dimethoxy-4-sulfophenyl)diazenyl]diazenyl]-5-hydroxy-7-sulfo-2-naphthalenyl]-4-[2-(2-carboxy-4-sulfophenyl)diazenyl]-4,5-dihydro-5-oxo- (CA INDEX NAME)

PAGE 1-B

-S03H

ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

2005:570869 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 143:99070

Magenta bisazo dyes and their use in ink-jet printing Foster, Clive Edwin; Schofield, David; Downey, Julie Ann; Burnham, Neil; Double, Philip John; Bradbury, Roy Avecia Inkjet Limited, UK TITLE: INVENTOR(S):

PATENT ASSIGNEE(S):

PCT Int. Appl., 41 pp. CODEN: PIXXD2 SOURCE:

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D	ATE	
WO	2005	 0588	07		A1	_	2005	0630		WO 2	 004-	GB51:	 25		2	0041	${206}$
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		CN,					DE,										
		GE,					ID,										
		LK,					LV,										
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US	2007	0276	132				2007	1129				5832					
RITY	APP.	LN.	INFO.	. :								2924					
										WO 2	004 -	GB51:	25	1	W 2	0041	206
	URCE	· · /			MAR	PAT	143:	99070	)								

GRAPHIC IMAGE:

## ABSTRACT:

The invention relates to a bisazo compound of formula (I) and salts thereof; wherein Q is an optionally substituted aryl ring; Y is CO2H, SO3H or PO3H2; R and X are substituents; m is 0 to 3; n is 0 to 6; and q is 0 to 6 (e.g., dye II). Also compns. comprising these compds., ink-jet inks, an ink-jet printing process and an ink-jet cartridge.

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856174-13-5P 856174-14-6P 856174-15-7P
IT
     856174-16-8P 856174-17-9P 856174-18-0P
     856174-19-1P 856174-20-4P 856174-21-5P
     856174-22-6P 856174-23-7P 856174-24-8P
     856174-25-9P 856174-26-0P 856174-27-1P
     856174-29-3P 856174-30-6P 856174-31-7P
     856174-32-8P 856174-34-0P 856174-35-1P
     856174-36-2P 856174-37-3P 856174-38-4P
     856174-39-5P 856174-40-8P 856174-41-9P
     856174-42-0P 856174-43-1P 856174-44-2P
     856174-45-3P 856174-46-4P
     RL: IMF (Industrial manufacture); TEM (Technical or engineered material
     use); PREP (Preparation); USES (Uses)
        (production of magenta bisazo dyes for ink-jet printing inks)
RN
     856174-13-5 CAPLUS
```

CN Benzoic acid, 2-[2-(1-hydroxy-3, 6, 8-trisulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-14-6 CAPLUS

CN Benzoic acid, 2-[2-(1-hydroxy-4-sulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN

856174-15-7 CAPLUS Benzoic acid, 2-[2-(1-hydroxy-3,8-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)CN

RN 856174-16-8 CAPLUS

Benzoic acid, 2-[2-(1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-CN sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-17-9 CAPLUS

CN Benzoic acid, 2-[2-(1-hydroxy-4, 8-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-18-0 CAPLUS

1, 5-Naphthalenedisulfonic acid, 4-hydroxy-3-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME) CN

RN 856174-19-1 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4-hydroxy-3-[2-[2-sulfo-4-[2-(4sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-20-4 CAPLUS

CN 1,6-Naphthalenedisulfonic acid, 8-hydroxy-7-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-21-5 CAPLUS

CN 1-Naphthalenesulfonic acid, 4-hydroxy-3-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-22-6 CAPLUS

CN 1, 3, 6-Naphthalenetrisulfonic acid, 8-hydroxy-7-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-23-7 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[2-[3-carboxy-4-[2-(1-hydroxy-3,6,8-trisulfo-2-naphthalenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-24-8 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[2-[3-carboxy-4-[2-(1-hydroxy-3,8-disulfo-2-naphthalenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-25-9 CAPLUS

CN 1, 3-Benzenedicarboxylic acid, 5-[2-[3-carboxy-4-[2-(1-hydroxy-3, 6-disulfo-2-naphthalenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-26-0 CAPLUS

CN Benzoic acid, 5-[2-(2,5-disulfophenyl)diazenyl]-2-[2-(1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]- (CA INDEX NAME)

RN 856174-27-1 CAPLUS

CN Benzoic acid, 5-[2-(2,5-disulfophenyl)diazenyl]-2-[2-(1-hydroxy-4-sulfo-2-naphthalenyl)diazenyl]- (CA INDEX NAME)

RN 856174-29-3 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-chloro-4-hydroxy-3-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-30-6 CAPLUS

CN Benzoic acid, 2-[2-(8-chloro-1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-31-7 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 6-chloro-4-hydroxy-3-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]]- (CA INDEX NAME)

RN 856174-32-8 CAPLUS

CN Benzoic acid, 2-[2-(7-chloro-1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-34-0 CAPLUS

CN 1-Naphthalenesulfonic acid, 5-hydroxy-6-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-35-1 CAPLUS

CN 2-Naphthalenesulfonic acid, 4-hydroxy-3-[2-[2-sulfo-4-[2-(4-sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-36-2 CAPLUS

CN Benzoic acid, 2-[2-(1-hydroxy-5-sulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-37-3 CAPLUS

Benzenesulfonic acid, 2-[2-[1-hydroxy-4-(3,4,5,6-tetrahydro-4,6-dioxo-1,3,5-triazin-2-y1)-2-naphthaleny1]diazeny1]-5-[2-(4-sulfopheny1)diazeny1]- (CA INDEX NAME)

RN 856174-38-4 CAPLUS

Benzoic acid, 2-[2-[1-hydroxy-4-(3,4,5,6-tetrahydro-4,6-dioxo-1,3,5-CN triazin-2-yl)-2-naphthalenyl]diazenyl]-5-[2-(4-sulfophenyl)diazenyl]-INDEX NAME)

RN 856174-39-5 CAPLUS

Benzoic acid, 2-[2-[3-carboxy-4-[2-(1-hydroxy-3,6-disulfo-2-CN naphthalenyl)diazenyl]phenyl]diazenyl]-4-sulfo- (CA INDEX NAME)

RN

856174-40-8 CAPLUS Benzoic acid, 2-[2-(8-bromo-1-hydroxy-3,5-disulfo-2-naphthalenyl)diazenyl]- <math display="inline">5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME) CN

RN

856174-41-9 CAPLUS Benzoic acid, 2-[2-(8-cyano-1-hydroxy-3,5-disulfo-2-naphthalenyl)diazenyl]-CN 5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

856174-42-0 CAPLUS RN

Benzoic acid, 2-[2-(7-bromo-1-hydroxy-3, 6-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-43-1 CAPLUS

Benzoic acid, 2-[2-(7-cyano-1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-CN5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

RN 856174-44-2 CAPLUS

Benzoic acid, 2-[2-(8-bromo-1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

856174-45-3 CAPLUS

CN sulfophenyl)diazenyl]phenyl]diazenyl]- (CA INDEX NAME)

RN 856174-46-4 CAPLUS

Benzoic acid, 2-[2-(8-cyano-1-hydroxy-3,6-disulfo-2-naphthalenyl)diazenyl]-CN 5-[2-(4-sulfophenyl)diazenyl]- (CA INDEX NAME)

REFERENCE COUNT:

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